In the Claims

- 1. (Original) A process for reducing the sulfur content of naphtha in the effluent from a fluid catalytic cracking reactor during teatment in a catalytic distillation fractionation column, the process comprising:
 - a. drawing from the fractionation column a stream of high-sulfur hydrocarbons, full-range catalytic cracked naphtha and light cycle oil fraction boiling in the range C. sub. 5 to 500°F.
 - b. introducing the high-sulfur hydrocarbon and naphtha stream into a reactive distillation side column for hydrodesulfurizing;
 - c. introducing hydrogen into the side column;
 - d. operating the side column to desulfurize the high-sulfur hydrocarbons and provide a low-sulfur content naphtha;
 - e. separating and withdrawing a low-sulfur content naphtha fraction C. sub. 5 to 430. degree. F. boiling range from the side column;
 - f. returning the low-sulfur content naphtha to the fractionation column; and
 - g. recovering the low-sulfur content naphtha from an overhead stream withdrawn from the fractionation column.
- 2. (Original) The process of claim 1, wherein the recovered low-sulfur content naphtha contains 200 ppm or less of sulfur.
- 3. (Original) The process of claim 1, wherein the recovered low sulfur content naphtha contains not more than 30 ppm of sulfur.
- 4. (Original) The process of claim 1, wherein the recovered low sulfur content naphtha contains sulfur in the range from 30 ppm to 200 ppm.

high-sulfur[(-)]hydrocarbons include compounds selected from the group consisting of mercaptans, sulfides, disulfides, thiophenes, benzothiophenes, and thiophenic and benzothiophenic compounds.

5. (Currently amended) The process of claim 1, wherein the

- 6. (Currently amended) The process of claim 1 which further includes withdrawing a +430° F heavy catalytic cracked naphtha stream from the bottom of the side column and returning it to the fractionation column.
- 7. (Original) The process of claim 1, wherein the low-sulfur content naphtha is returned to the fractionation column in the form of a first stream comprising light and medium catalytic cracked naphtha and a second stream comprising heavy catalytic cracked naphtha.
- 8. (Original) The process of claim 7 which further includes withdrawing a portion of the second stream as a separate heavy catalytic naphtha product stream.
- 9. (Original) The process of claim 7 which further includes returning a vapor portion of the second heavy catalytic cracked naphtha stream to the side column above the take-off of the second stream.
- 10. (Original) The process of claim 1 which further includes separating and removing from the fractionation column a heavy cycle oil product stream and a light cycle oil product stream.
- 11. (Original) The process of claim 10, wherein the side column bottom stream is returned above the take-off position of the light cycle oil stream.
- 12. (Original) The process of claim 1, wherein the side column includes plates and trays and said trays contain a hydrodesulfurization catalyst.
 - 13. (Original) The process of claim 1, wherein the hydrogen is introduced into the side

column in at least two locations.

- 14. (Original) The process of claim 13, wherein at least one hydrogen stream is introduced below and one hydrogen stream is introduced above the position of the introduction of the high-sulfur catalytic naphtha stream.
- 15. (Original) The process of claim 7, wherein at least a portion of the overheads from the side column that are returned to the fractionation column comprise low-sulfur light and midcut naphtha.